

## AMENDMENTS TO THE CLAIMS

**Claim 1 (Currently Amended)**      An optical receptacle comprising:  
a precision sleeve;  
a stub provided with an optical fiber, said stub being fixed to one end of an inner hole of the precision sleeve through an adhesive; and  
a sleeve holder fixed to an outer periphery of the precision sleeve by press-fitting or through an adhesive, wherein  
an outer periphery of the stub and ~~with an optical fiber and/or~~ the inner hole of the precision sleeve have ~~has~~ a surface roughness Ra value of  $0.1\ \mu\text{m}$  or more and  $0.5\ \mu\text{m}$  or less.

**Claim 2 (Original)**      An optical receptacle according to claim 1, wherein the outer periphery of the stub with an optical fiber and/or the inner hole of the precision sleeve has a surface roughness Ra value of more than  $0.2\ \mu\text{m}$  and a surface roughness Ry value of  $4.0\ \mu\text{m}$  or less, and a difference between an average line and a peak line of surface roughness is  $2.0\ \mu\text{m}$  or less.

**Claim 3 (Previously Presented)**      An optical receptacle according to claim 1, wherein a core of the optical fiber has a concentricity of  $0.5\ \mu\text{m}$  or less with respect to the outer periphery of the stub with an optical fiber.

**Claim 4 (Previously Presented)**      An optical receptacle according to claim 1, wherein the inner hole of the precision sleeve has a larger inner diameter by 0 to  $1.5\ \mu\text{m}$  than an outer diameter of an optical fiber connector ferrule.

**Claim 5 (Previously Presented)**      An optical receptacle according to claim 1, wherein a capillary of the stub with an optical fiber is formed of crystallized glass.

**Claim 6 (Previously Presented)**      An optical receptacle according to claim 1, wherein the precision sleeve is formed of glass or crystallized glass.

**Claim 7 (Previously Presented)** An optical receptacle according to claim 5, wherein the crystallized glass has a crystal grain size of 0.1  $\mu\text{m}$  to 1.0  $\mu\text{m}$ , and the crystallized glass contains crystals in an amount of 30 to 70 mass%.

**Claim 8 (Previously Presented)** An optical receptacle according to claim 1, wherein the adhesive contains 10 vol% or more of fillers having a maximum particle size of 0.5  $\mu\text{m}$  or less and an average particle size of 0.3  $\mu\text{m}$  or less.

**Claim 9 (Previously Presented)** An optical receptacle according to claim 2, wherein a core of the optical fiber has a concentricity of 0.5  $\mu\text{m}$  or less with respect to the outer periphery of the stub with an optical fiber.

**Claim 10 (Previously Presented)** An optical receptacle according to claim 2, wherein the inner hole of the precision sleeve has a larger inner diameter by 0 to 1.5  $\mu\text{m}$  than an outer diameter of an optical fiber connector ferrule.

**Claim 11 (Previously Presented)** An optical receptacle according to claim 3, wherein the inner hole of the precision sleeve has a larger inner diameter by 0 to 1.5  $\mu\text{m}$  than an outer diameter of an optical fiber connector ferrule.

**Claim 12 (Previously Presented)** An optical receptacle according to claim 9, wherein the inner hole of the precision sleeve has a larger inner diameter by 0 to 1.5  $\mu\text{m}$  than an outer diameter of an optical fiber connector ferrule.

**Claim 13 (Previously Presented)** An optical receptacle according to claim 2, wherein a capillary of the stub with an optical fiber is formed of crystallized glass.

**Claim 14 (Previously Presented)** An optical receptacle according to claim 3, wherein a capillary of the stub with an optical fiber is formed of crystallized glass.

**Claim 15 (Previously Presented)** An optical receptacle according to claim 9, wherein a capillary of the stub with an optical fiber is formed of crystallized glass.

**Claim 16 (Previously Presented)** An optical receptacle according to claim 4, wherein a capillary of the stub with an optical fiber is formed of crystallized glass.

**Claim 17 (Previously Presented)** An optical receptacle according to claim 11, wherein a capillary of the stub with an optical fiber is formed of crystallized glass.

**Claim 18 (Previously Presented)** An optical receptacle according to claim 12, wherein a capillary of the stub with an optical fiber is formed of crystallized glass.

**Claim 19 (Previously Presented)** An optical receptacle according to claim 2, wherein the precision sleeve is formed of glass or crystallized glass.

**Claim 20 (Previously Presented)** An optical receptacle according to claim 3, wherein the precision sleeve is formed of glass or crystallized glass.